

V. MODERN INFORMATION TECHNOLOGIES AND THEIR APPLICATION

V. СОВРЕМЕННЫЕ ИНФОРМАЦИОННЫЕ ТЕХНОЛОГИИ И ИХ ПРИМЕНЕНИЕ

A.A. Akhmetov, E.M. Bozhko

Ural Federal University named after the first President of Russia B.N. Yeltsin

Yekaterinburg, Russia

ADVANTAGES AND DISADVANTAGES OF MODERN TECHNOLOGY

Abstract: This article describes the modern technologies that have been introduced into the life of society and in all its spheres, and also explains what advantages and disadvantages they have. Modern technology is simply an advancement of old technology. The impact of technology on modern life is immeasurable.

Key words: modern, technology, spheres, life, society, flash drive, smartphone, access, information, remote, business, communication, productivity, education, networking.

Modern technology is simply an advancement of old technology. The impact of technology on modern life is immeasurable. We use technology in different ways, and sometimes the way we implement various technologies ends up in harming our lives or the society we live in. What we call modern technology is in most cases technically not so new. For example, mobile phone technology has evolved in the course of years, and nowadays we use smartphones, which represent an advancement of an ordinary mobile phone.

Technology is applied to the roles each individual fulfills in their life. We use technology on a daily basis to accomplish specific tasks or interests. Modern technology, which has evolved in the course of years, increases human capabilities. What used to work before, might not be

working now, it must have got old or replaced by modern technology. Let's look at a simple example of transportation technology. We used to use steam-powered trains, and now they have been replaced with electronic trains, which move much faster.

Modern technology simplifies life in so many ways, and everyone defines technology in their own way. To some people, it means complicated electronic devices. To others, it means the source of radical changes that are happening in all spheres of life. Others define technology as science applied to practical purposes. Some people fear to use technology while others see it as a source of longer and more complete lives.

Technology also can have a great influence on job-seekers. They should acquire different technological skills, and make sure they can create or invent something new using these new skills. However, being employed is just a step most of us have taken but it does not guarantee financial security, so technology can also be used to start a small business.

Advantages and disadvantages of modern technology are discussed in more details below.

Advantages of modern technology:

- **Easy access to information.** It has become very easy to get access to relevant information at any time anywhere. This became possible because of modern technologies like broadband internet. Lots of data is being published and indexed online, web sites like Wikipedia and YouTube have great original content, which can be used for research or entertainment. Information is power, and those, who find information and use it well, always succeed. Using smart gadgets like iPad, iPhone, Samsung Galaxy tablet, users can easily have access to information because these smart gadgets use the Internet. So a user on a train can easily read breaking news while traveling, and buy and sell stocks using the Internet while in the bedroom. Smart gadgets make Internet access easy, and this simplifies the way we get information [1].

- **Encourages innovation and creativity.** Since technology is challenging, it sparks the brain to work to its full potential. In the past, it used to be very difficult to start a business; one had to have lots of capital, and even had limited access to business information. Today, it is very easy to start a business while at home. Let's look at companies like Etsy.com, which enable creative people to sell their works online, thus encouraging creativity. Another good example is kickstarter.com, which helps creative

people get funds for their projects through crowdfunding. Creative developers post projects on this platform seeking funding from the community.

- **Improved communication.** Communication is like water to life. We cannot develop without it. Modern technology has blessed us with advanced communication technology tools. These can include e-fax machines, electronic mail, mobile phones, video conferencing, instant text messaging applications, social networking applications. All these modern communication technology tools have simplified the way humans and businesses communicate. You can easily talk to your relatives overseas using a mobile phone or video chatting services like Skype.

- **Efficiency and Productivity.** Modern technology has helped businesses increase production. Humans are slow and sometimes they fail to deliver on time. So, many businesses have integrated modern technology in their production lines, and most of the hard work became simple, and the results are better than those of humans. Let's look at a farmer who has used modern technologies right since the day of preparing the farmland to the day of harvesting. These technologies save a lot of time and money during this process.

- **Convenience in Education.** Learning is a process and a part of our daily lives. Modern technology has made it simple for students to learn from anywhere through online education and mobile apps. Also, students now use modern technology in classrooms to learn better. For instance, students use iPads to share visual lessons and examples with peers in the classroom. This has made learning more convenient and fun. New modern educational technologies also support individual learning, which gives students a chance to learn on their own with no need of tutors [2].

- **Social Networking.** Modern technology has made it simple to discover our old friends and new people to network with. This is a great benefit to both individuals and businesses. Many businesses embraced the social networking technology to interact with their customers. Users of social networks can share information with friends, have a live chat with them and interact in all sorts of ways.

- **Changed the health care industry.** Nowadays most hospitals have implemented modern technology in surgical rooms, which reduced mistakes made by doctors. Humans can easily err because of work overload and stress factors. Also, the business community has developed health applications which can enable us to monitor our health and weight.

These applications can be used on mobile phones, so users can have them at any time of the day.

Disadvantages of modern technology:

- **Increased loneliness.** Social isolation is on the increase, people are spending more time playing video games, learning how to use new modern technologies, using social networks, and they neglect their real life. Technology has replaced our old way of interacting. If a user can easily interact with 100 friends online, they will feel no need to going out to make real friends, which at a later stage leads to loneliness.

- **Job Loss.** Modern technology has replaced many humans; robots are doing the jobs which used to be done by them. Many packing firms have employed robots on production lines to increase production and efficiency, and this is good news for businesses because it helps them make more money and serve customers in time. However, it is bad news for employees because they are getting replaced by a robot [3].

- **World destruction weapons.** Modern technology has been the main aid in the increasing and endless wars. It aids the manufacturing of modern war weapons which will require testing. So when these weapons get into the hands of criminals, they will use them for their selfish reasons.

Examples of modern technologies, which can simplify your life

Ultra-thin Quad-band Watch Mobile Phone

This is a modern watch, which comes with basic functions of a mobile phone. It will simplify the way you communicate – you no longer have to worry about losing or misplacing your mobile phone. Now this new technology puts all basic features of a mobile phone in a watch, which has a high-definition display, MP3 ringtones, and audio tone, supports multimedia messaging, and so much more. This advancement in communication technology makes us wonder if mobile phones will be replaced by watch phones. For those who hate carrying mobile phones all the time, this is a great option as you can easily set this watch phone in vibration and connect it to your Bluetooth. You certainly will not miss any business or important call. [4]

Kingston Digital DataTraveler

You can easily transfer and move with your data using this Kingston Digital DataTraveler. Many times we back up our data on cloud servers, but these servers are not 100% safe, so some prefer backing a copy of data on a flash drive. This Kingston Digital DataTraveler has 16GB of storage space, so you can store as much data as you want, its size is slim, and it

can fit in your wallet. Kingston Digital DataTraveler supports Windows 8, Windows 7, Vista, XP and Mac. The cap on the top is fixed on the drive, so you will not lose it. You can easily drag-and-drop files, photos, videos, music and so much more on this Kingston Digital DataTraveler. This slim data traveler greatly simplifies the way you move your data.

SATA Hard Drive Docking Station

This SATA Hard Drive Docking Station allows to work smart and secure your data. It will hold your SATA Hard Drive firmly, so you will not worry about damaging your hard drive. It also comes with a USB port, which makes it easy to access or backup data directly from your laptop. The transmission speed is up to 5Gbps.

Now that we have seen both useful and harmful influence of technology on modern life, it is our responsibility to use technology to improve our lives. We also have to make sure that we preserve our society and environment. If we don't control the usage of technology tools, we shall surely end up harming both of them.

А.А. Ахметов, Е.М. Божко

Уральский федеральный университет имени первого Президента России Б.Н. Ельцина
Екатеринбург, Россия

ПРЕИМУЩЕСТВА И НЕДОСТАТКИ СОВРЕМЕННЫХ ТЕХНОЛОГИЙ

Аннотация: данная статья рассказывает о современных технологиях, которые внедрились в жизнь общества и во все его сферы, а также объясняет, какие же у них есть преимущества и недостатки.

Ключевые слова: современный, технологии, сферы, жизни, общество, флеш-накопитель, смартфон, доступ, информация, удалённый, бизнес, коммуникация, продуктивность, образование, нетворкинг.

СПИСОК ЛИТЕРАТУРЫ:

1. Access to information – and its constraints. [Электронный ресурс]. – Режим доступа: <http://www.gsdr.org/topic-guides/communication-and-governance/access-to-information-and-its-constraints> (дата обращения 12.12.2017).
2. Convenience of Distance Universities. [Электронный ресурс]. – Режим доступа: <https://www.universitieshandbook.com/blog/367-convenience-of-distance-universities> (дата обращения 24.12.2017).
3. Job Loss and Unemployment Stress. [Электронный ресурс]. – Режим доступа: <https://www.helpguide.org/articles/stress/job-loss-and-unemployment-stress.htm> (дата обращения 24.12.2017).
4. Ultra-thin Quad-band Watch Mobile Phone. [Электронный ресурс]. – Режим доступа: <http://appleshopaholic.com/new-version-ultra-thin-quad-band-watch-mobile-phone-fmmp3mp4-2m-camera> (дата обращения 02.01.2017).